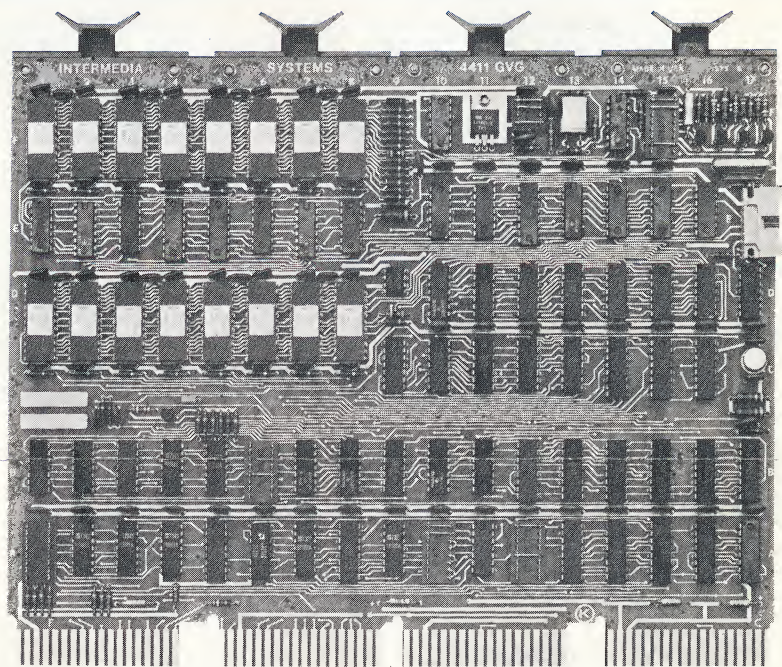




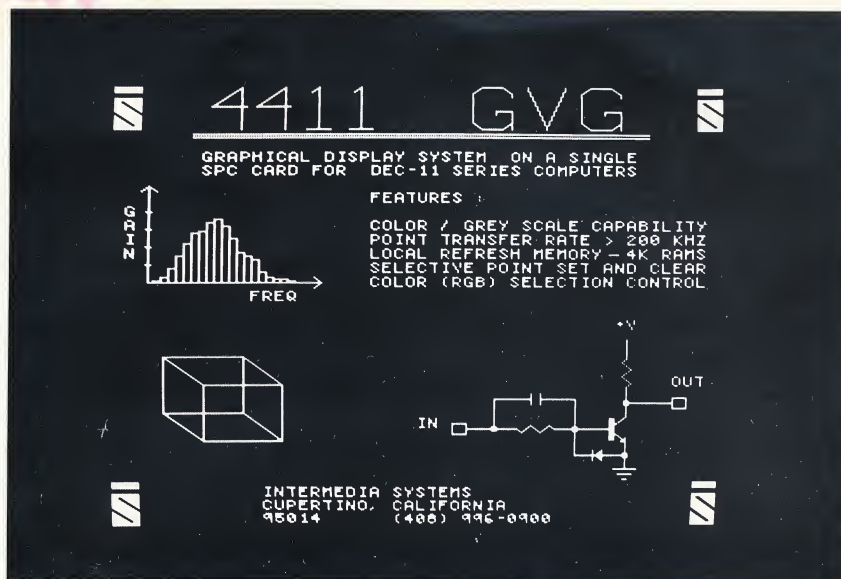
4411 GRAPHIC VIDEO GENERATOR

Nov 75



4411 Graphic Video Generator

Output signal compatible with closed circuit TV monitors designed for EIA RS-170 composite video signals.



4411 GVG Display
(Actual Photograph)

Intermedia Systems, founded in 1972, designs and manufactures low cost graphics display systems. Over 400 units find world-wide applications in the display of graphical data from scientific, medical, process control, and data base retrieval systems.

- **ADDRESSING**
 - Device address and interrupt vector selection allows up to 64 graphic video generator systems on the UNIBUS.
- **DISPLAY**
 - 65,536 independent points (256 x 256 matrix) stored in local RAM memory. Each point is individually addressable.
 - Points normally white on dark background; polarity reversible by program control or by jumper selection.
- **SIGNAL**
 - Composite video and synchronization.
 - 1.4 volt p-p into 75 ohm resistive load.
 - Suitable for operating closed circuit TV monitors designed for EIA RS-170 composite video signals.
 - Internal circuitry for grey scale mixing.

■ **TIMING**

FUNCTION	MINIMUM	AVERAGE	MAXIMUM
POINT ADD/DELETE	3.5 μ s	5.0 μ s	6.5 μ s
SCREEN ERASE	16 ms	24 ms	32 ms

■ **POWER (< 10 Watts)**

VOLTAGE (Volts)	+15	+5	-15
CURRENT (mA)	200	1200	65

■ **TEMPERATURE**

OPERATING	0°C to 45°C
NON-OPERATING	-50°C to 100°C

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DOMESTIC END USER PRICE SCHEDULE

Effective July 1975

GRAPHIC VIDEO GENERATORS

DEC PDP-11 SERIES

HP 2100 SERIES

4411 GVG

QUANTITY

4416 GVG

\$2750

1-2

\$2500

\$2500

3-19

\$2325

\$2325

20-49

\$2200

\$2200

50-99

\$2100

All units are complete with video connector assembly, Operating and Service Manual, Diagnostic, and applicable software.

GRAPHICS FOR ALL DEC-11 MINICOMPUTERS

TECHNICAL MERITS OF THE

INTERMEDIA SYSTEMS 4411 GRAPHIC VIDEO GENERATOR

1. Constructed with standard readily available integrated circuits - no ROMs, custom hybrid packages, or other single-sourced parts.
2. All digital implementation - no potentiometers, single-shots, op amps, or switches to adjust.
3. Double-sided, gold-plated epoxy board with solder mask on both sides. More reliable than a multilayer board - no chance of internal shorts.
4. Low power dissipation - less than 10 watts.
5. Local memory (4K RAMs) to continuously refresh the raster scan video display without computer interaction.
6. Designed to operate in a rugged process control environment.
7. Software under development for all DEC operating systems.
8. One year warranty - all parts and labor.
9. Fourth in a series of single card graphical display products for minicomputers. Over 400 units in use around the world.
10. DELIVERY FROM STOCK.

Intermedia Systems was first to introduce a locally refreshed, single card Graphic Video Generator to minicomputer users over three years ago. We believe our latest product - the 4411 GVG is the perfect answer to your low-cost graphical display requirements.

For further information call or write:





intermedia systems

Dear DEC-11 User,

Intermedia Systems currently manufactures the following Graphics Display products for minicomputers:

- 4411 GRAPHIC VIDEO GENERATOR
for the DEC PDP-11 series computers.
- 4416 GRAPHIC VIDEO GENERATOR
for the HP 2100 series computers

Each of these products has the following key features:

- single printed circuit card (1 SPC Slot)
- local RAM memory to refresh the raster scan video display without computer interaction
- 65,536 points, each one individually addressable
- easy system integration (power and packaging are supplied by your computer; cabling consists of one 75 ohm coaxial cable)
- color or grey scale (using multiple cards)
- low cost (see enclosed price schedule)

The enclosed literature describes these features in more detail for the 4411 Graphic Video Generator.

Please return the enclosed post card, or contact me or Mr. Thomas Kornei, our Engineering Manager. Thank you for your interest in the products of Intermedia Systems.

Sincerely,

Harry Kline

Harry Kline
Marketing Manager

HK/cc



intermedia systems

Display Requirements:

Black & White ___ Grey Scale ___ Color ___

Number of Display Channels per CPU: ___

Please describe your application(s):

Computers used at your facility:

<u>Make</u>	<u>Model(s)</u>	<u>Quantity</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

For more information on our Graphic Video Generators, please complete this card.

___ Immediate Need ___ 4411 GVG

___ Future Application ___ 4416 GVG

___ Reference Only

Name _____

Title _____

Firm _____

Dept. _____

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City _____

State _____ Zip _____

Phone () _____ Ext. _____

Date _____

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